

Simplified and Summary EBVT I, EBVT II & EBVT III Sequences

1. Tune A4 to A-440 pitch source.
2. Tune A3 to A4, a 6:3 type octave.
3. Temper the F3-A3 M3 at 6 beats per second*.
4. Tune the F3-C4 P5 beatless. Also, temporarily tune A#3 from F3 as a beatless P4.
5. Tune the F4 as a beatless P5 from the temporarily tuned A#3. This creates a 4:2 type F3-F4 octave (virtually beatless). The F3-A#3 P4 and the A#3-F4 P5 will be temporarily beatless. The F3-C4 P5 will be beatless and the C4-F4 P4 will be apparently beatless. The F3-F4 octave will also sound apparently beatless. Playing F3-A#3-C4 and F4 all together should reveal an apparently beatless sound.
6. Temper the C4-E4 M3 at 6 beats per second.
7. Temper the G3-E4 M6 at 6 beats per second.
8. Temper the G3-B3 M3 at 6 beats per second.
9. Temper D4 from both G3 and A3 so the G3-D4 P5 and the A3-D4 P4 beat exactly the same.
10. Temper the temporarily tuned A#3 from F3, presently a beatless P4 to a widened P4, so the F3-A#3 P4 beats exactly the same as the G3-C4 P4.
11. Temper the A3-C#4 M3 so it beats exactly the same as the A#3-D4 M3.
12. Tune the F#3-C#4 P5 beatless.
13. Tune the G#3-C#4 P4 beatless.
14. Temper D#4 from both G#3 and A#3 so the G#3-D#4 P5 and A#3-D#4 P4 beat exactly the same.
15. **EBVT II option:** Sharpen E4 so the B3-E4 P4 now beats exactly the same as the A3-E4 P5. Skip this step to retain the original EBVT I.
16. **EBVT III option:** Sharpen F#3 so that the F#3-B3 P4 and the F#3-C#4 P5 beat exactly the same.

*Six Beats per second F3-A3 M3

There is a way to create an F3-A3 M3, which beats at exactly 6 beats per second without counting beats. It utilizes the classic equal beating process for temperament construction.

1. Temporarily tune F3-A3-C#4-F4-A4 in Equally tempered contiguous M3s.
2. Temporarily tune A#3 as beatless P4 to F3.
3. Temporarily tune G#3 as a beatless P4 to C#4.
4. Temporarily tune D#4 so that the G#3-D#4 P5 and A#3-D#4 P4 are equal beating.
5. Temporarily tune A#3 so that F3-A#3 and A#3-D#4 P4s are equal beating.
6. Tune F3 as a beatless P4 to A#3. The F3-A3 M3 will now beat at exactly 6 beats per second.

Electronic Tuning Data

Below are the correction figures for use with Electronic Tuning Device (ETD) calculated programs.

Note	EBVT I	EBVT II	EBVT III
C	+3.8	+3.8	+3.8
C#	-1.3	-1.3	-1.3
D	+0.9	+0.9	+0.9
D#	+1.6	+1.6	+1.6
E	-2.0	-0.4	-0.4
F	+1.8	+1.8	+1.8
F#	-3.2	-3.2	-0.3
G	+3.1	+3.1	+3.1
G#	+0.7	+0.7	+0.7
A	0.0	0.0	0.0
A#	+2.9	+2.9	+2.9
B	0.0	0.0	0.0